

FIG.1

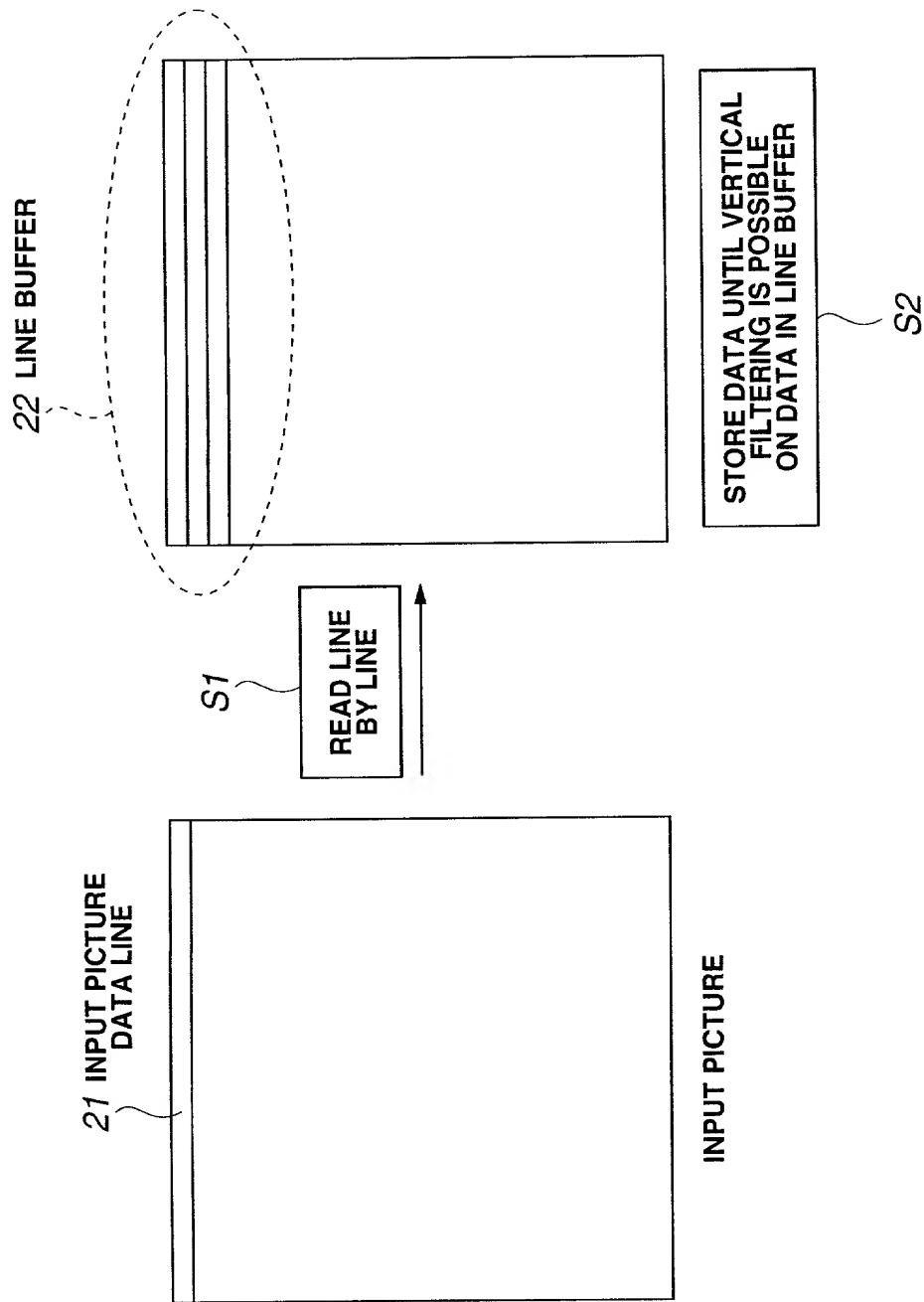


FIG.2

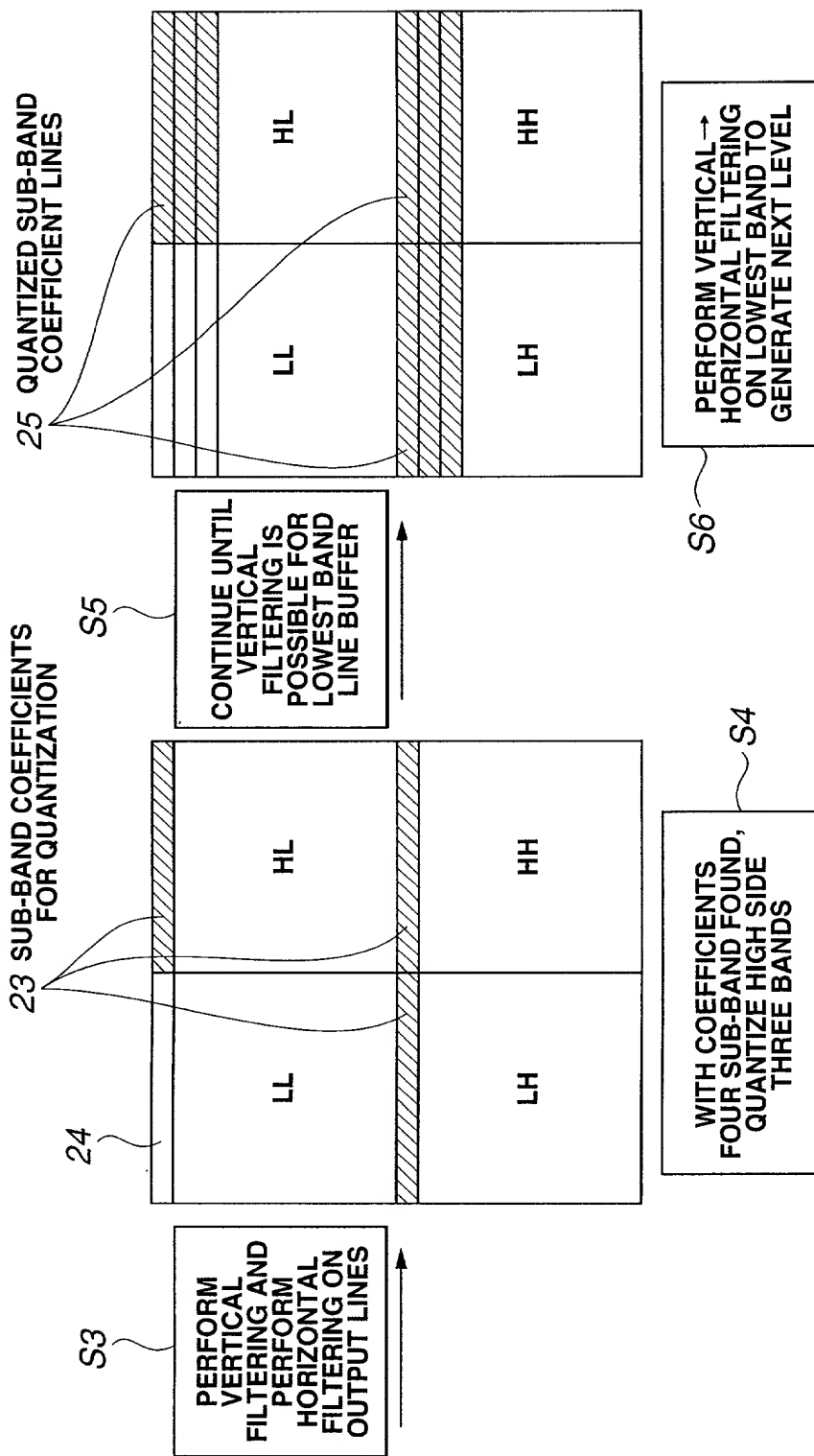


FIG.3

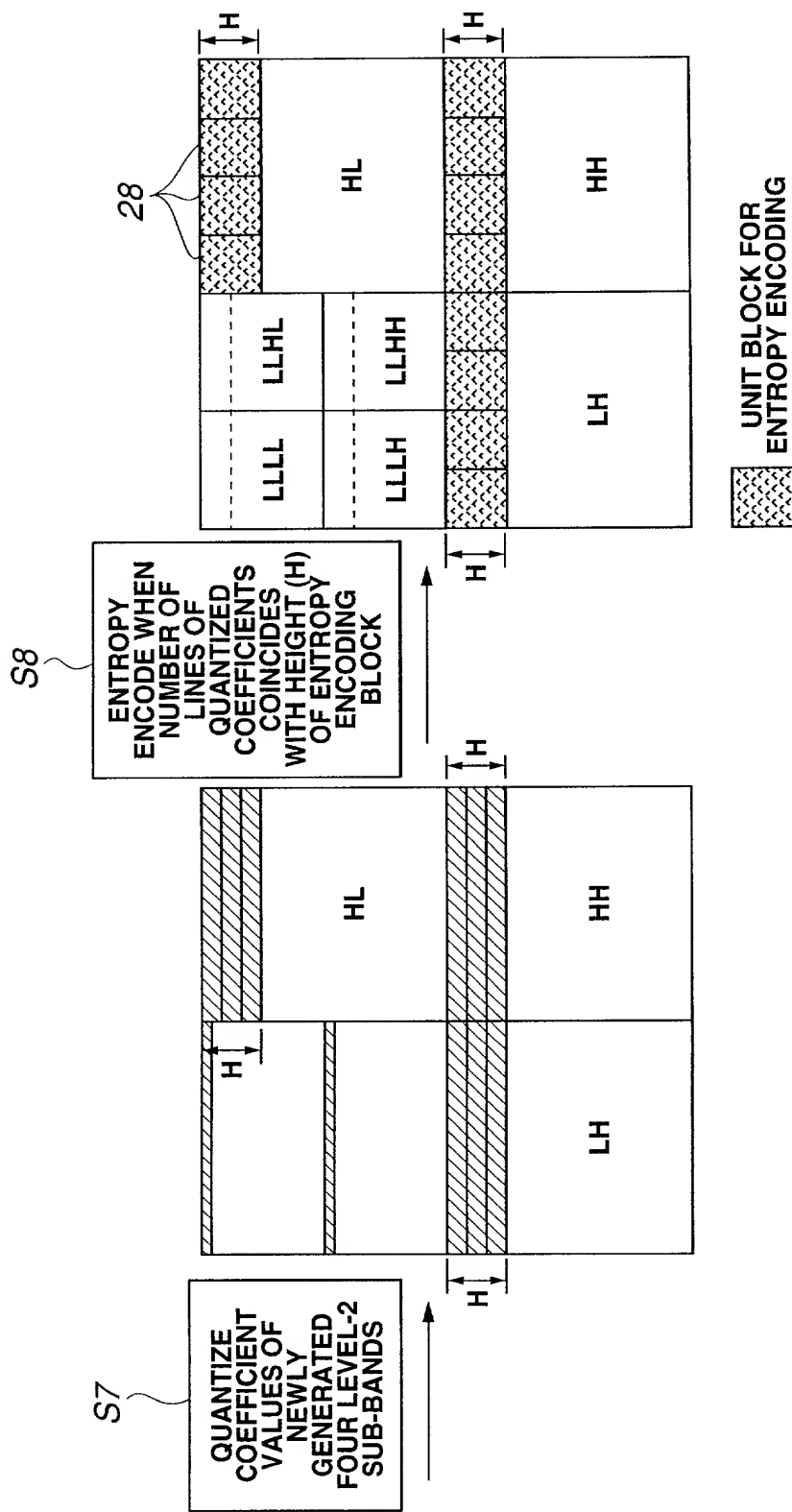


FIG.4

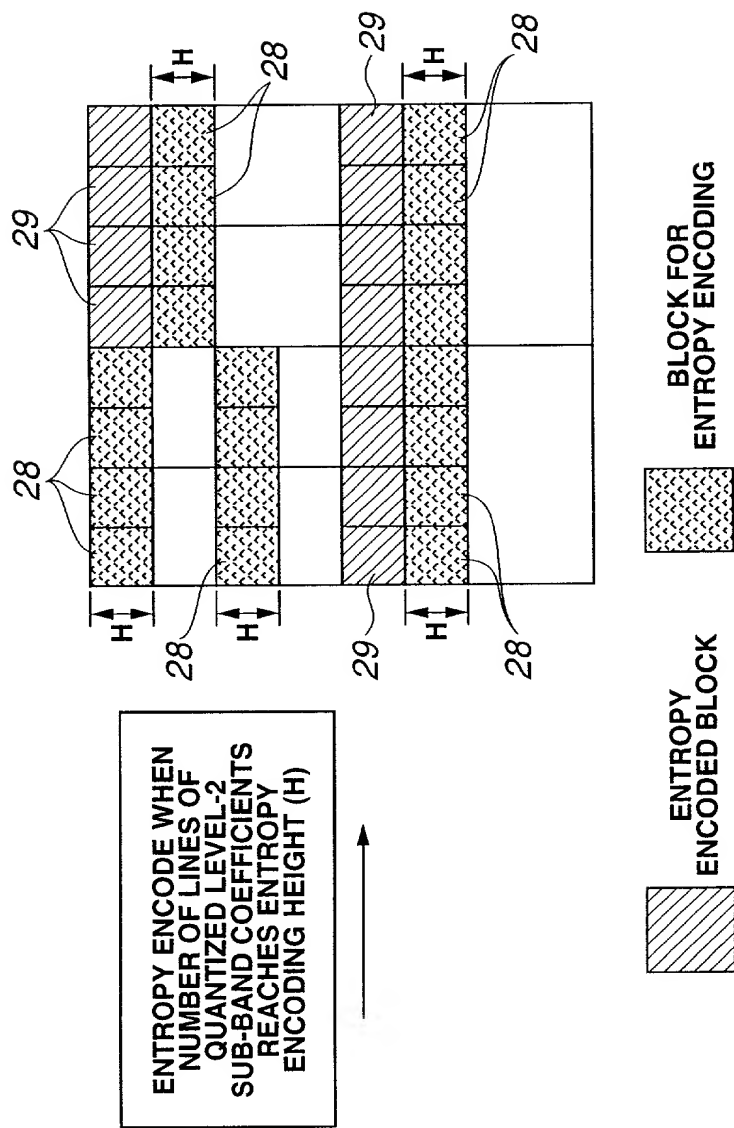


FIG.5

Diagram illustrating a 2D grid structure for a 3-level splitting process. The grid is divided into four quadrants by a horizontal and vertical line. The dimensions are labeled as $X_SIZE/2$ and $Y_SIZE/2$. The top-left quadrant is further divided into four sub-quadrants, each with dimensions $X_SIZE/4$ and $Y_SIZE/4$.

The sub-quadrants in the top-left quadrant are labeled as follows:

- Top-left: $LLLLL$ (T_{LLLLL})
- Top-right: $LLLLHL$ (T_{LLLLHL})
- Bottom-left: $LLLLLH$ (T_{LLLLLH})
- Bottom-right: $LLLLHH$ (T_{LLLLHH})

The other quadrants are labeled as follows:

- Top-right: $LLHL$ (T_{LLHL})
- Bottom-left: $LLLH$ (T_{LLLH})
- Bottom-right: $LLHH$ (T_{LLHH})
- Far right (spanning top and bottom): HL (T_{HL})
- Far left (spanning top and bottom): LH (T_{LH})
- Far bottom (spanning left and right): HH (T_{HH})

SPLITTING LEVEL=3
(H : HIGH, L : LOW)

FIG.6

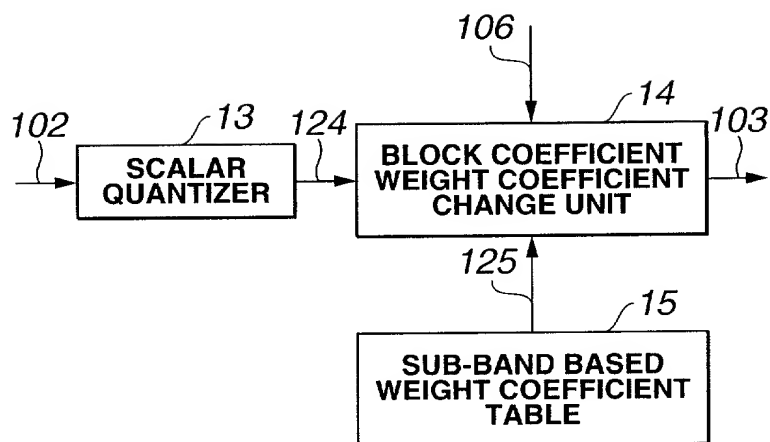


FIG.7

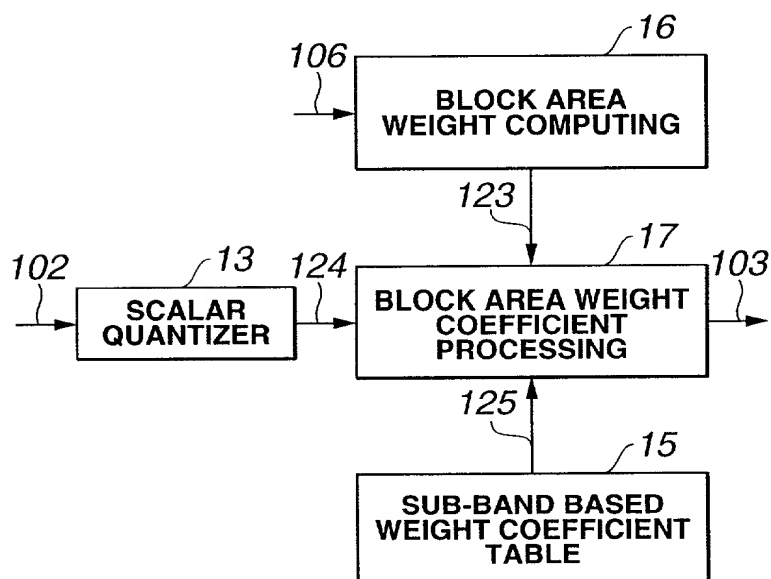
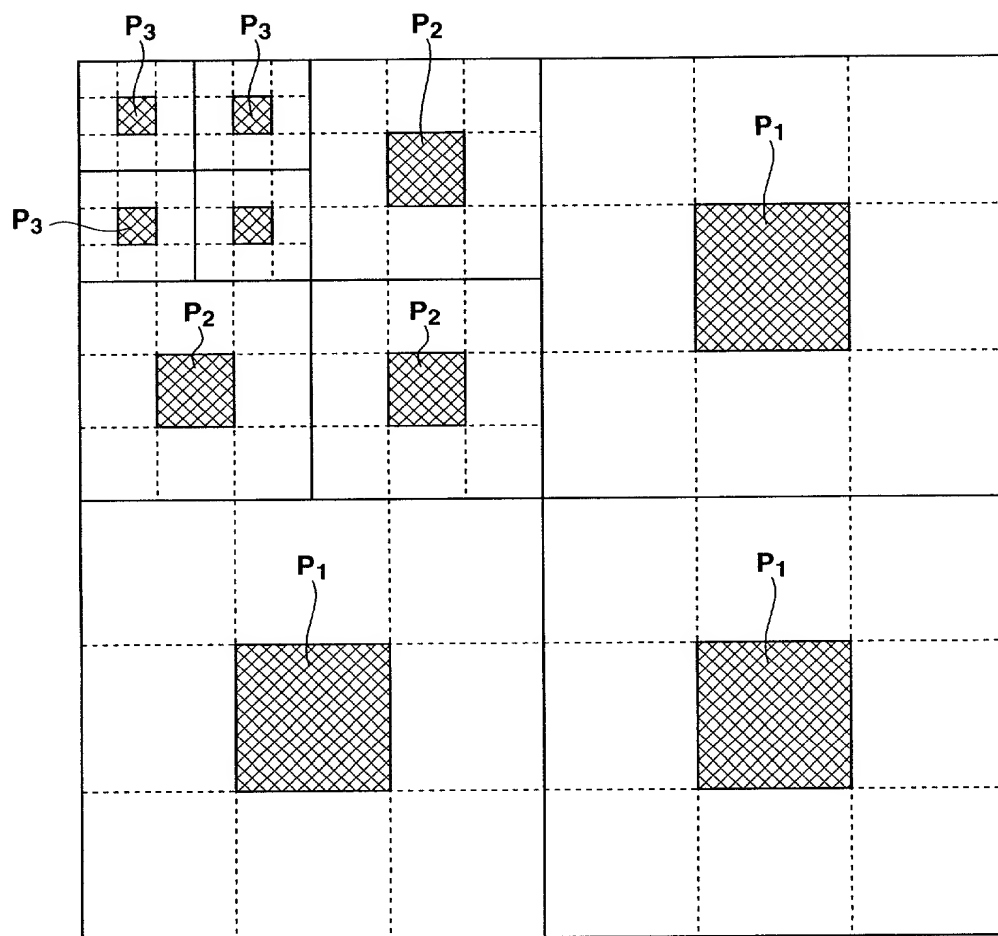


FIG.8

FIG.9



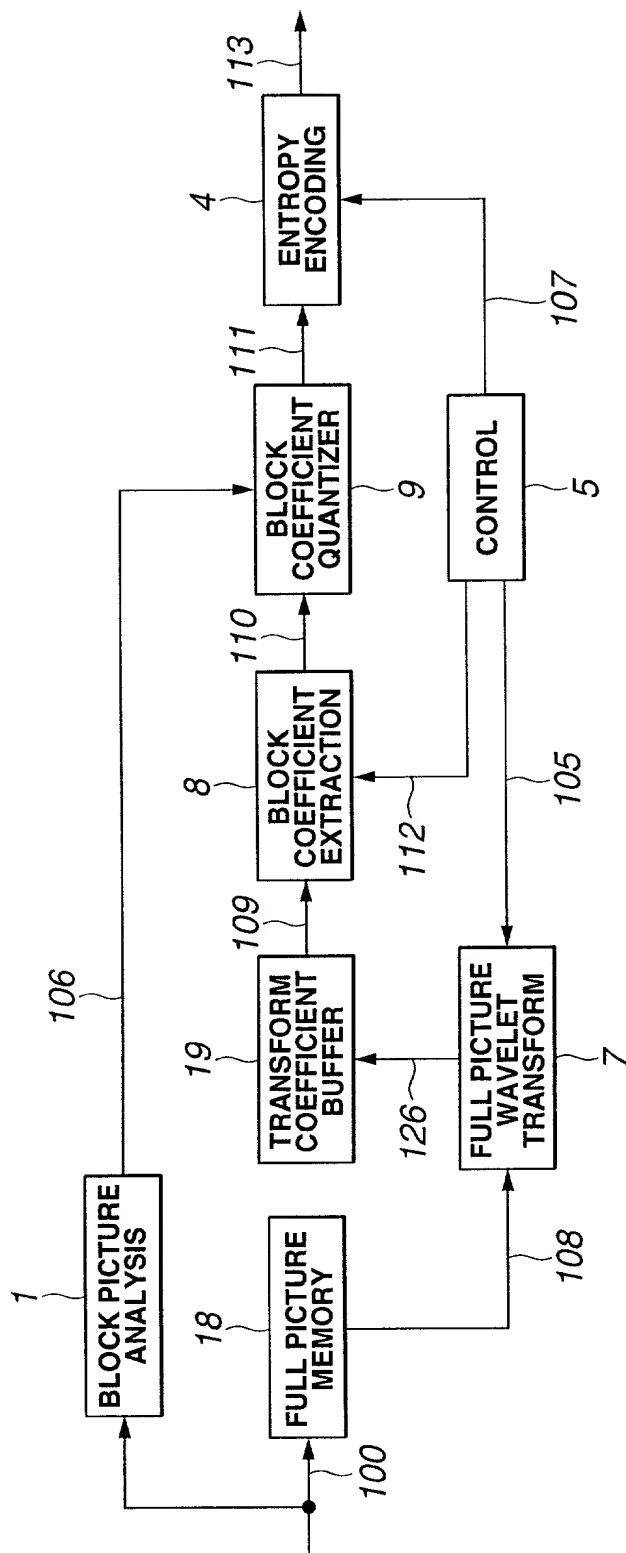


FIG.11

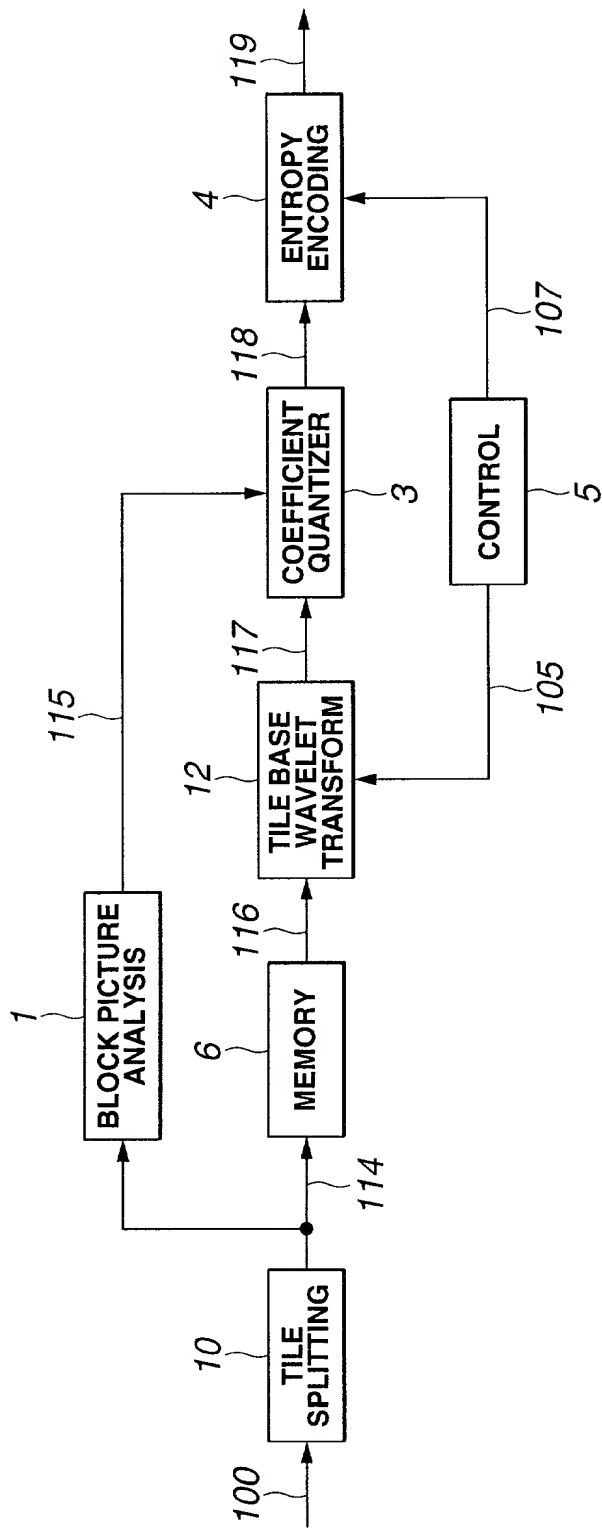


FIG.12

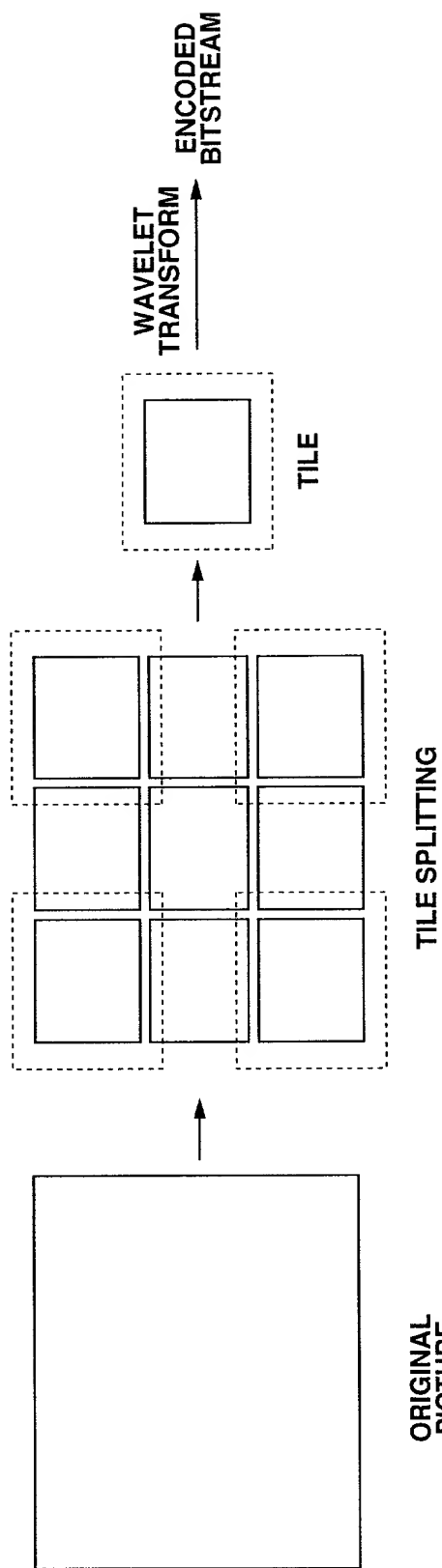


FIG.13A

FIG.13B

FIG.13C

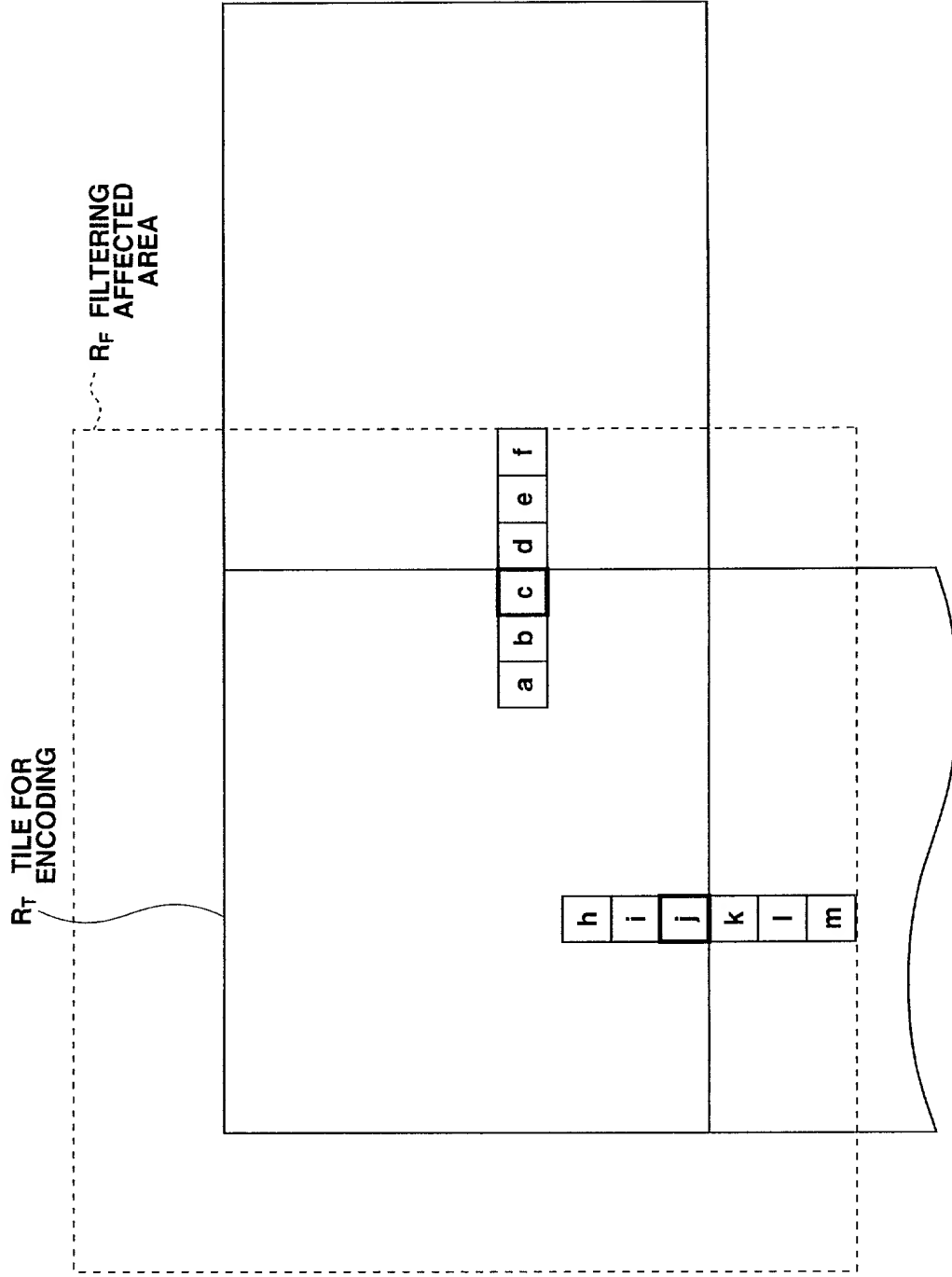


FIG.14

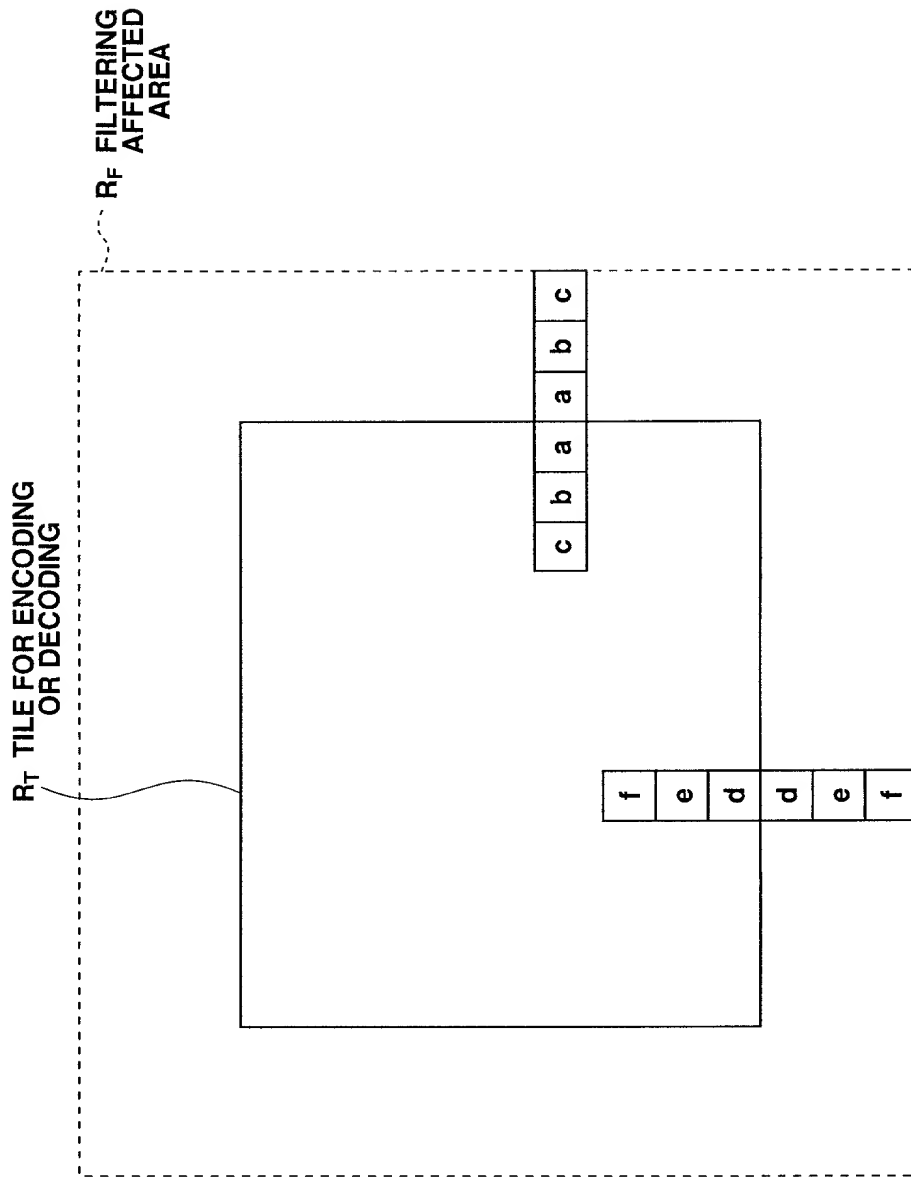


FIG.15

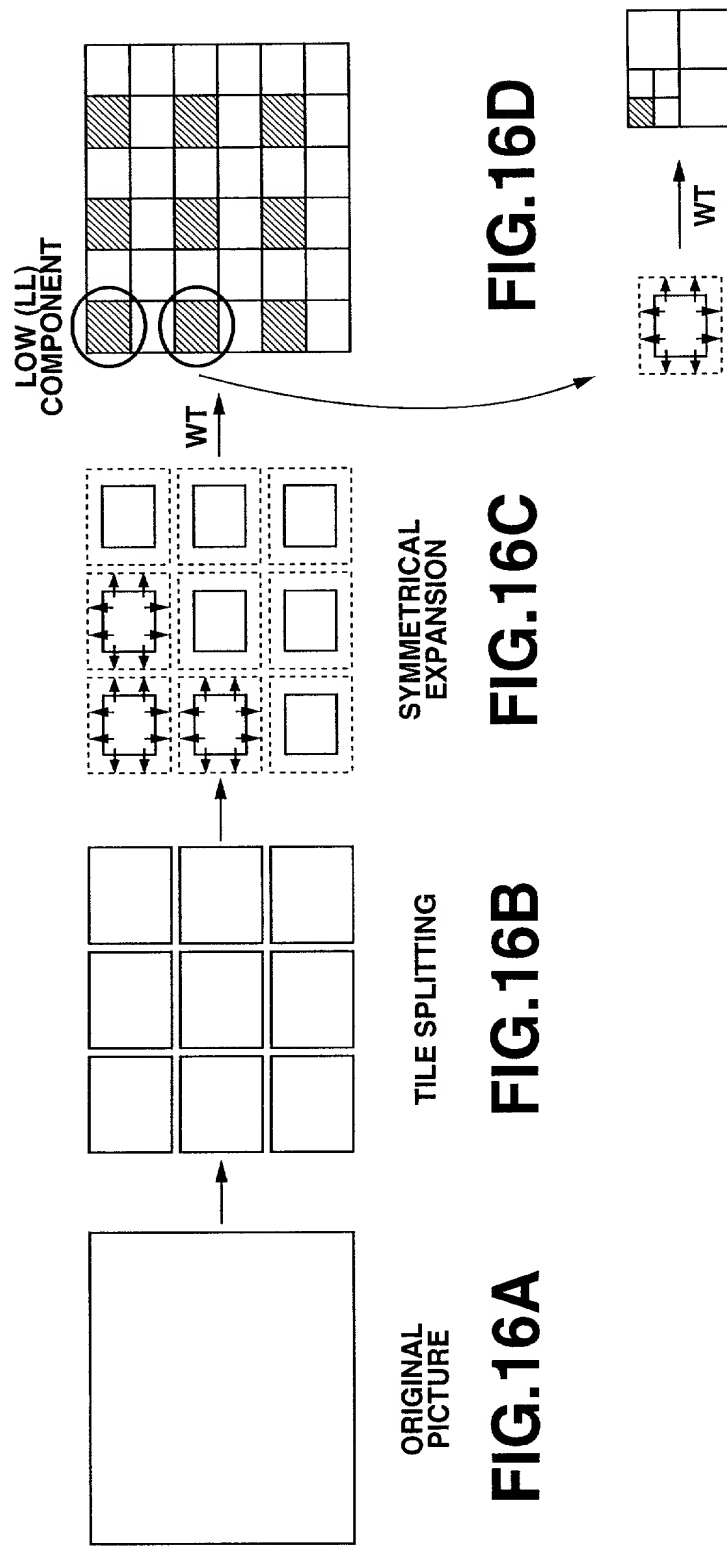


FIG. 16E FIG. 16F

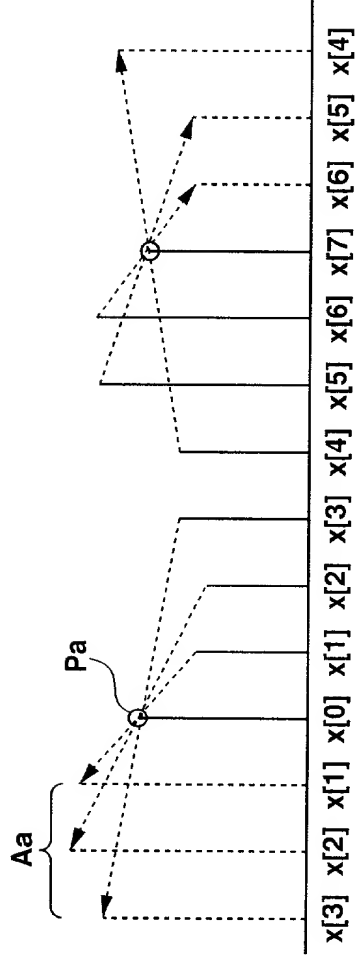


FIG. 17A

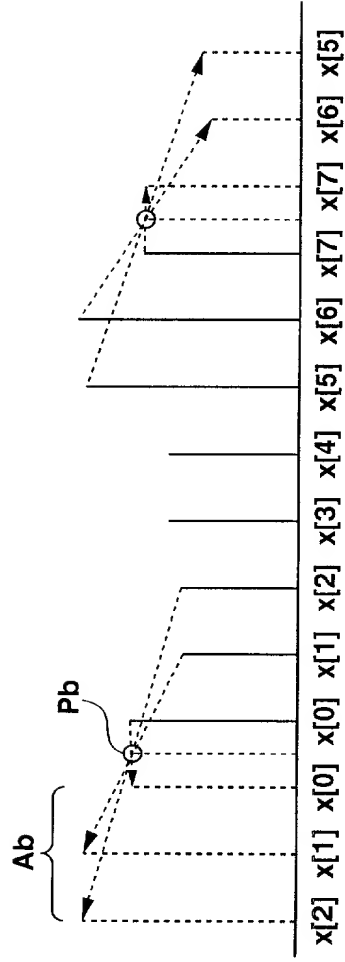


FIG. 17B

FIG.18A

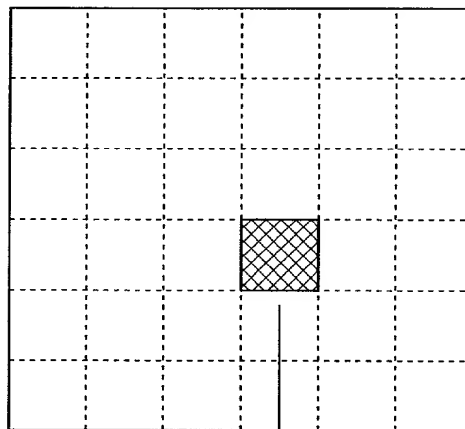
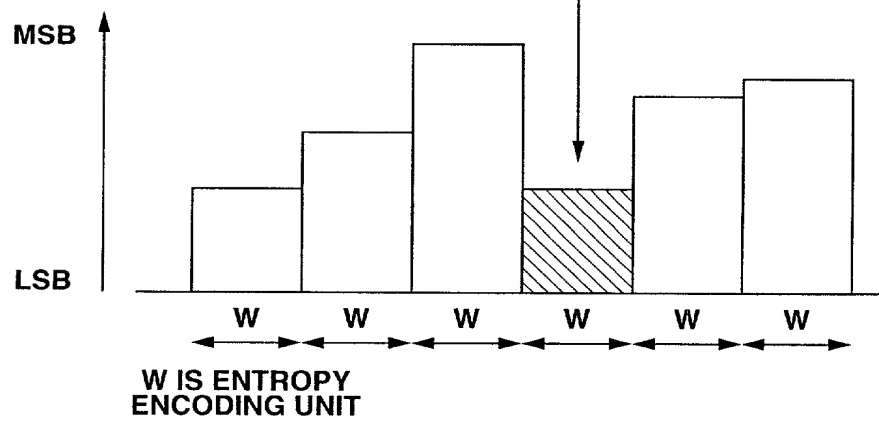


FIG.18B



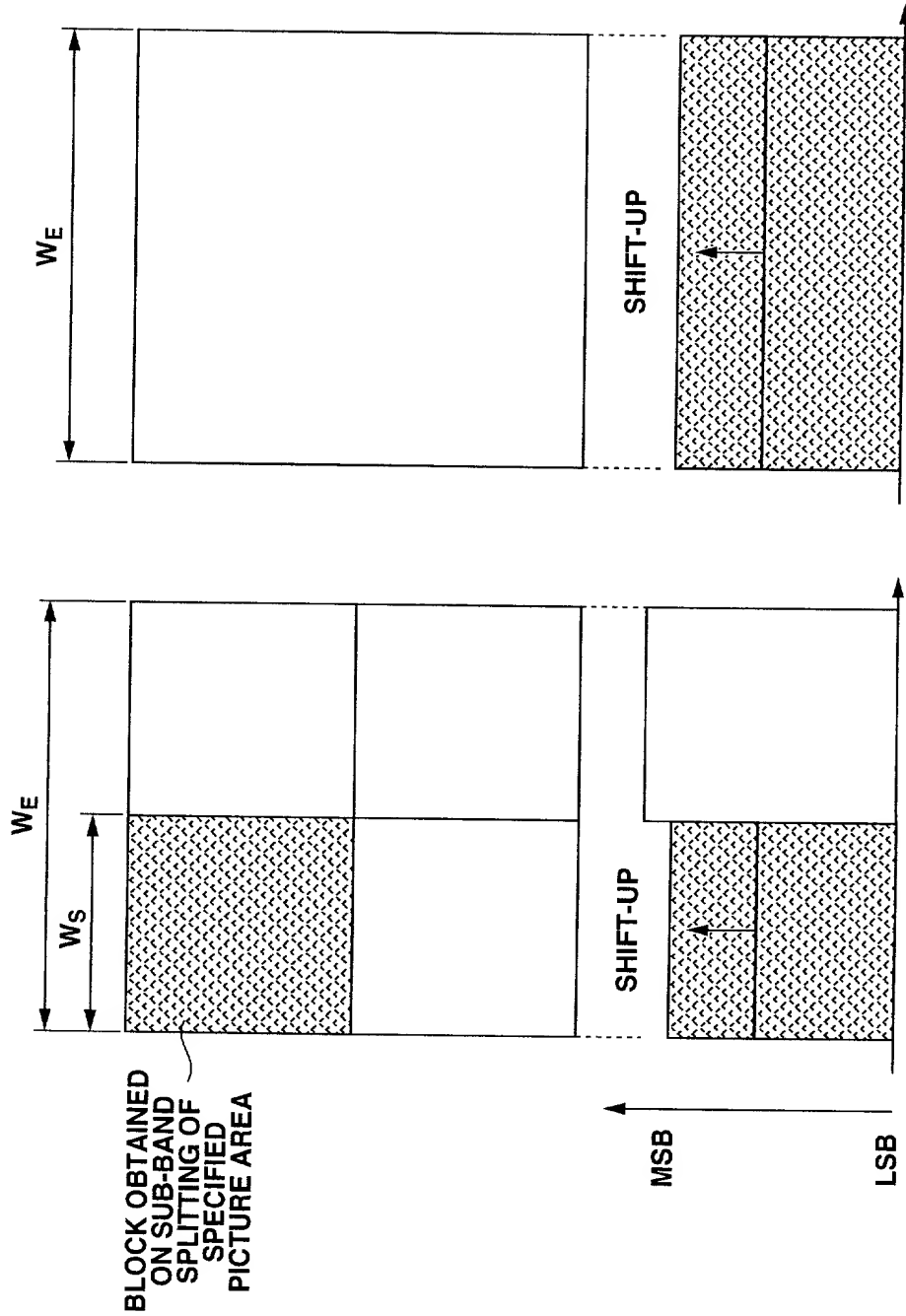


FIG. 19A

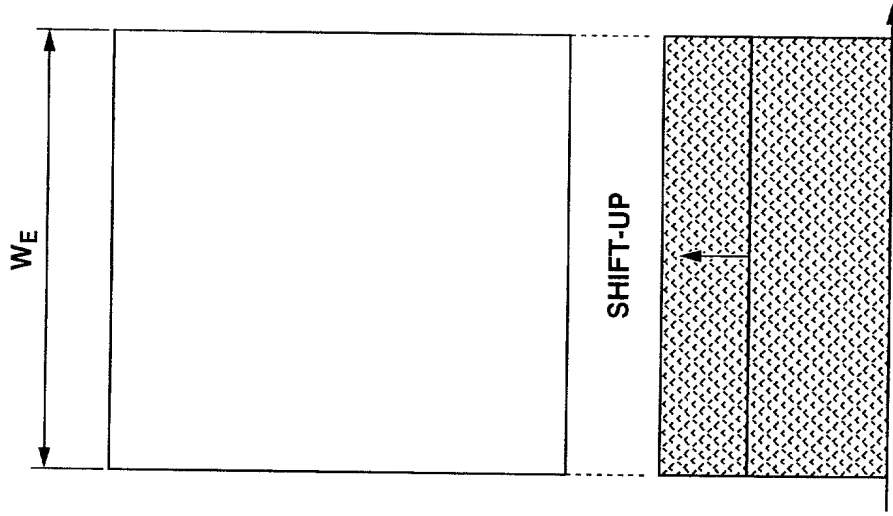


FIG. 19B

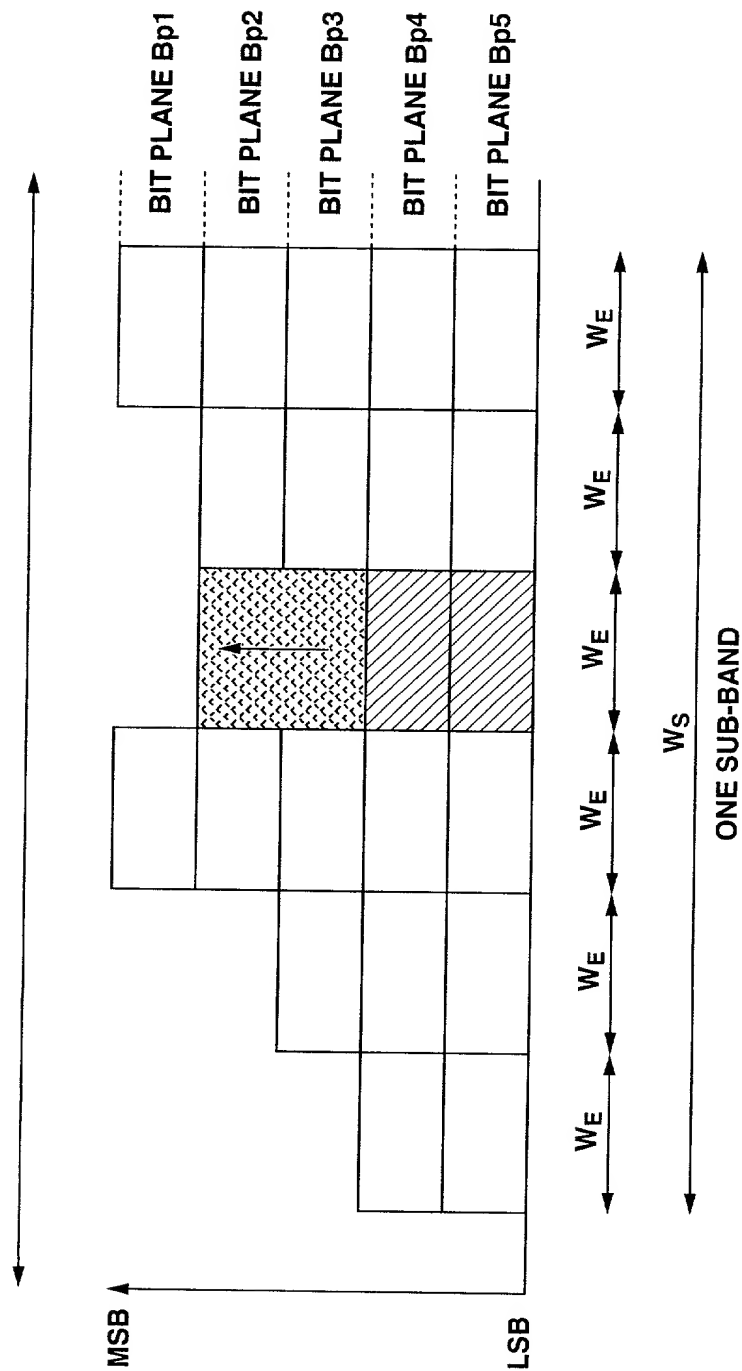


FIG.20

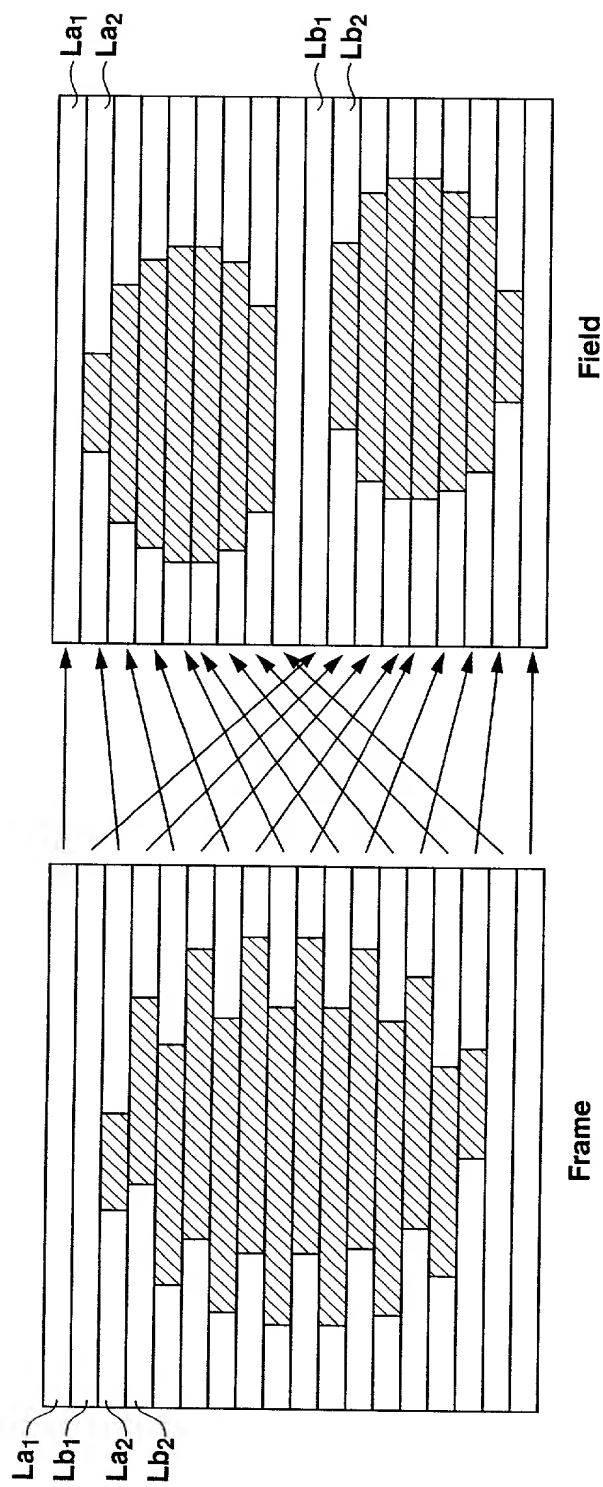


FIG. 21

FIG. 22

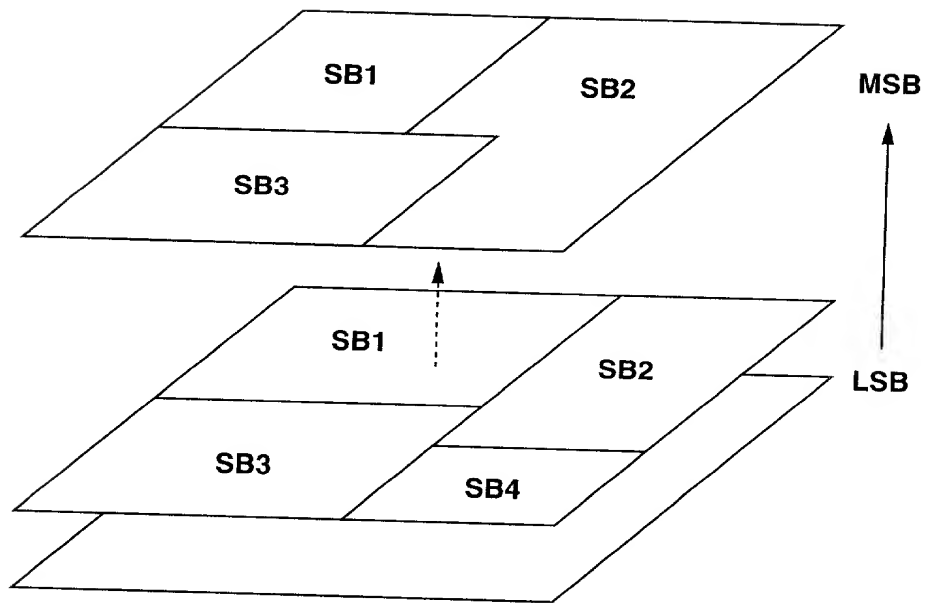


FIG.22

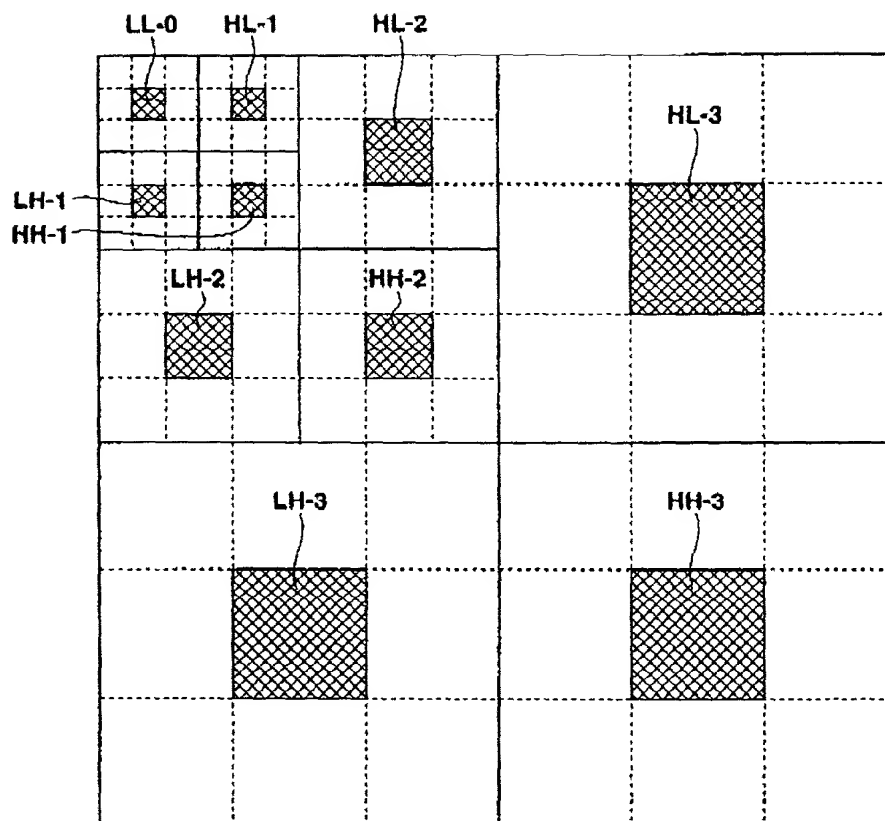


FIG.23